

OIB - P-3 Orion 04/13/17 Science Report

Aircraft:

P-3 Orion ([See full schedule](#))

Date:

Thursday, April 13, 2017

Mission:

OIB

Mission Location:

North Glaciers 02 Prime

Mission Summary:

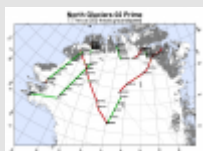
Mission: North Glaciers 02 Prime (high priority, last flown 2014)

This mission is designed to resurvey a historical ATM longitudinal survey of Academy Glacier, plus several other glaciers. These include Ostensfeld, Maria Sophia, and a (possibly unnamed) glacier emptying into Newman Bay. We also survey flowlines of the Hagen and Petermann glaciers all the way from their termini to the ice divide.

A near-perfect forecast for this spatially extensive mission, as opposed to our other two highest priority objectives (ICESat-2 North and South Canada Basin), favored this mission. We briefly encountered clouds during the transit from Thule to Camp Century that required us to increase our elevation, but otherwise it was a bluebird day. All outlet glaciers and ICESat tracks were successfully surveyed and our primary instruments all operated successfully. Prior to We also managed a fly-over of the Kee Bird, a B-29 that made an emergency landing near Petermann Glacier in 1948.

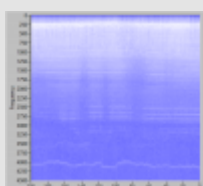
Images:

Map of today's mission



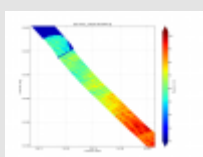
[Read more](#)

MCoRDS quick-look near waypoint PETFLA at the southernmost point of



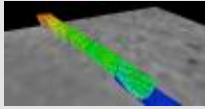
[Read more](#)

ATM T6 mapping of surface elevation near the calving front of Ostensfeld



[Read more](#)

Same as #3 but in 3-D.



[Read more](#)

DMS image of Kee Bird B-29 emergency landing site, southwest of



[Read more](#)

Submitted by:

Joseph MacGregor on 04/19/17

Source URL: https://airbornescience.nasa.gov/science_reports/OIB_-_P-3_Orion_04_13_17_Science_Report